



## Complete Summary

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### TITLE

HIV: percentage of nursing facility patients placed on Mycobacterium avium complex (MAC) prophylaxis (rifabutin, clarithromycin, azithromycin or other).

### SOURCE(S)

New York State Department of Health AIDS Institute HIV Quality of Care Program. Nursing facility HIV performance measures. [internet]. New York: New York State Department of Health AIDS Institute; 2000-2004 [cited 2005 Aug 10]. [3 p]. Available: [http://www.hivguidelines.org/public\\_html/center/quality-of-care/qoc-title-indicators/skilled-nursing.pdf](http://www.hivguidelines.org/public_html/center/quality-of-care/qoc-title-indicators/skilled-nursing.pdf).

## Measure Domain

### PRIMARY MEASURE DOMAIN

Process

The validity of measures depends on how they are built. By examining the key building blocks of a measure, you can assess its validity for your purpose. For more information, visit the [Measure Validity](#) page.

### SECONDARY MEASURE DOMAIN

Does not apply to this measure

## Brief Abstract

### DESCRIPTION

This measure is used to assess the percentage of nursing facility HIV-infected patients who were placed on Mycobacterium avium complex (MAC) prophylaxis (rifabutin, clarithromycin, azithromycin or other).

This measure is one of 16 New York State Department of Health AIDS Institute, HIV Quality of Care Program, [Nursing Facility HIV Performance Measures](#).

### RATIONALE

The AIDS Institute is committed to promoting, monitoring and supporting the quality of HIV clinical services for people with HIV in New York State. Clinical guidelines are developed in accordance with newly emerging clinical and research

developments. By developing indicators based on the guidelines, the AIDS Institute has created a mechanism for measurement of HIV clinical performance.

These indicators measure critical aspects of the HIV Clinical Management for nursing facility HIV-infected patients.

Note: Although developed in New York State, these indicators are intended to be used by clinicians caring for patients with HIV in a nursing/long-term care facility setting in any locale.

#### PRIMARY CLINICAL COMPONENT

HIV; Mycobacterium avium complex (MAC); prophylaxis; rifabutin; clarithromycin; azithromycin

#### DENOMINATOR DESCRIPTION

Nursing facility HIV-infected patients with CD4 counts less than 50 cells/mm<sup>3</sup>, including those patients whose CD4 levels have been sustained above 100 cells/mm<sup>3</sup> for less than 6 months (see the related "Denominator Inclusions/Exclusions" field in the Complete Summary)

#### NUMERATOR DESCRIPTION

The number of patients placed on Mycobacterium avium complex (MAC) prophylaxis (rifabutin, clarithromycin, azithromycin or other)

### Evidence Supporting the Measure

#### EVIDENCE SUPPORTING THE CRITERION OF QUALITY

- A clinical practice guideline or other peer-reviewed synthesis of the clinical evidence
- A formal consensus procedure involving experts in relevant clinical, methodological, and organizational sciences

### Evidence Supporting Need for the Measure

#### NEED FOR THE MEASURE

Use of this measure to improve performance

#### EVIDENCE SUPPORTING NEED FOR THE MEASURE

New York State Department of Health AIDS Institute. Clinical management of HIV infection. Quality of care performance in New York State 1999-2001. New York: New York Department of Health AIDS Institute; 2003 Sep 1. 62 p.

## State of Use of the Measure

### STATE OF USE

Current routine use

### CURRENT USE

Internal quality improvement

## Application of Measure in its Current Use

### CARE SETTING

Long-term Care Facilities

### PROFESSIONALS RESPONSIBLE FOR HEALTH CARE

Advanced Practice Nurses  
Physician Assistants  
Physicians

### LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED

Single Health Care Delivery Organizations

### TARGET POPULATION AGE

Unspecified

### TARGET POPULATION GENDER

Either male or female

### STRATIFICATION BY VULNERABLE POPULATIONS

Unspecified

## Characteristics of the Primary Clinical Component

### INCIDENCE/PREVALENCE

Over one million persons in the United States are estimated to be living with HIV/AIDS. The prevalence rate for adults and adolescents is estimated at 168.8 per 100,000.

### EVIDENCE FOR INCIDENCE/PREVALENCE

Centers for Disease Control and Prevention. HIV/AIDS surveillance report, 2004. Vol. 16. Atlanta (GA): US Department of Health and Human Services, Centers for Disease Control and Prevention; 2005. 46 p.

#### ASSOCIATION WITH VULNERABLE POPULATIONS

Minority and risk groups, including poverty populations, medically uninsured, immigrants, and homeless persons

#### EVIDENCE FOR ASSOCIATION WITH VULNERABLE POPULATIONS

Centers for Disease Control and Prevention. HIV/AIDS surveillance report, 2004. Vol. 16. Atlanta (GA): US Department of Health and Human Services, Centers for Disease Control and Prevention; 2005. 46 p.

#### BURDEN OF ILLNESS

Unspecified

#### UTILIZATION

Unspecified

#### COSTS

Unspecified

### Institute of Medicine National Healthcare Quality Report Categories

#### IOM CARE NEED

Living with Illness

#### IOM DOMAIN

Effectiveness

### Data Collection for the Measure

#### CASE FINDING

Users of care only

#### DESCRIPTION OF CASE FINDING

- All nursing facility HIV-infected patients
- Patients absent for more than 21 consecutive days during a review period because of hospitalization or incarceration are not eligible for review during that four-month review period.

## DENOMINATOR SAMPLING FRAME

Patients associated with provider

## DENOMINATOR INCLUSIONS/EXCLUSIONS

### Inclusions

Nursing facility HIV-infected patients with CD4 counts less than 50 cells/mm<sup>3</sup>, including those patients whose CD4 levels have been sustained above 100 cells/mm<sup>3</sup> for less than 6 months

### Exclusions

Patients who are absent for more than 21 consecutive days during a review period because of hospitalization or incarceration

## RELATIONSHIP OF DENOMINATOR TO NUMERATOR

All cases in the denominator are equally eligible to appear in the numerator

## DENOMINATOR (INDEX) EVENT

Clinical Condition  
Institutionalization

## DENOMINATOR TIME WINDOW

Time window precedes index event

## NUMERATOR INCLUSIONS/EXCLUSIONS

### Inclusions

The number of patients placed on Mycobacterium avium complex (MAC) prophylaxis (rifabutin, clarithromycin, azithromycin or other)

### Exclusions

None

## MEASURE RESULTS UNDER CONTROL OF HEALTH CARE PROFESSIONALS, ORGANIZATIONS AND/OR POLICYMAKERS

The measure results are somewhat or substantially under the control of the health care professionals, organizations and/or policymakers to whom the measure applies.

## NUMERATOR TIME WINDOW

Episode of care

## DATA SOURCE

Medical record

#### LEVEL OF DETERMINATION OF QUALITY

Individual Case

#### PRE-EXISTING INSTRUMENT USED

Unspecified

### Computation of the Measure

#### SCORING

Rate

#### INTERPRETATION OF SCORE

Better quality is associated with a higher score

#### ALLOWANCE FOR PATIENT FACTORS

Unspecified

#### STANDARD OF COMPARISON

External comparison at a point in time  
External comparison of time trends  
Internal time comparison

### Evaluation of Measure Properties

#### EXTENT OF MEASURE TESTING

Review tools are pilot tested by peer review agent prior to full implementation.

The sample size is constructed by a statistical consultant based on a facility's caseload to ensure reliability. A statewide HIV Quality of Care Advisory Committee reviews indicators to ensure validity.

#### EVIDENCE FOR RELIABILITY/VALIDITY TESTING

Hatton TE. (Quality of Care Program Manager, AIDS Institute - NYSDOH).  
Personal communication. 2006 Mar 13. 1p.

### Identifying Information

#### ORIGINAL TITLE

Mycobacterium avium complex (MAC) prophylaxis.

#### MEASURE COLLECTION

[New York State Department of Health AIDS Institute, HIV Quality of Care Program Indicators](#)

#### MEASURE SET NAME

[Nursing Facility HIV Performance Measures](#)

#### DEVELOPER

New York State Department of Health AIDS Institute

#### ADAPTATION

Measure was not adapted from another source.

#### RELEASE DATE

2000 Jul

#### REVISION DATE

2004 Jun

#### MEASURE STATUS

This is the current release of the measure.

#### SOURCE(S)

New York State Department of Health AIDS Institute HIV Quality of Care Program. Nursing facility HIV performance measures. [internet]. New York: New York State Department of Health AIDS Institute; 2000-2004 [cited 2005 Aug 10]. [3 p]. Available: [http://www.hivguidelines.org/public\\_html/center/quality-of-care/qoc-title-indicators/skilled-nursing.pdf](http://www.hivguidelines.org/public_html/center/quality-of-care/qoc-title-indicators/skilled-nursing.pdf).

#### MEASURE AVAILABILITY

The individual measure, "Mycobacterium Avium Complex (MAC) Prophylaxis," is available in Portable Document Format (PDF) from the [New York State Department of Health AIDS Institute Web site](#).

#### COMPANION DOCUMENTS

The following are available:

- New York State Department of Health AIDS Institute. The HIV Quality of Care Program. New York (NY): New York State Department of Health AIDS Institute; 2004 Jun 1. 33 p. This document is available in Portable Document Format (PDF) from the [New York State Department of Health AIDS Institute Web site](#).
- A consumer's guide to quality in HIV care in New York State. New York: New York State Department of Health AIDS Institute; 2003 Sep 1. 11 p. This document is available in PDF from the [New York State Department of Health AIDS Institute Web site](#).
- New York State Department of Health AIDS Institute. Clinical management of HIV infection. Quality of care performance in New York State 1999-2001. New York: New York Department of Health AIDS Institute; 2003 Sep 1. 62 p. This document is available in PDF from the [New York State Department of Health AIDS Institute Web site](#).

#### NQMC STATUS

This NQMC summary was completed by ECRI on December 12, 2005. The information was verified by the measure developer on March 13, 2006.

#### COPYRIGHT STATEMENT

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